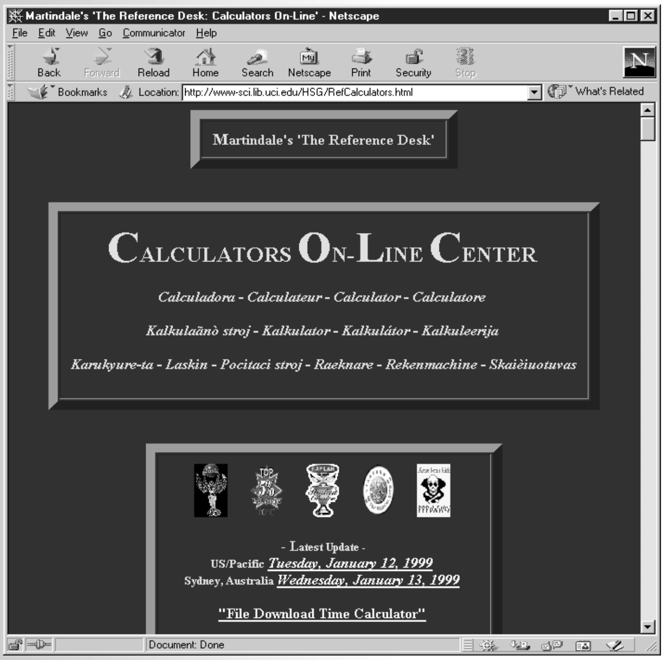
electronics on line

calculators on the Internet

Calculators come in many shapes and sizes, but you don't have to go to a department store to get one. Ferreting the Web we found more than 7,800!


Martindale's 'The Reference Desk: Calculators On-Line' - Netscape
File Edit View Go Communicator Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: http://www-sci.lib.uci.edu/HSG/RefCalculators.html
What's Related
Document: Done

Martindale's 'The Reference Desk'

CALCULATORS ON-LINE CENTER

Calculadora - Calculateur - Calculator - Calculatore

Kalkulaãnò stroj - Kalkulator - Kalkulátor - Kalkuleerija

Karukyure-ta - Laskin - Pocitaci stroj - Raeknare - Rekenmachine - Skaièiuotuvas

- Latest Update -
US/Pacific *Tuesday, January 12, 1999*
Sydney, Australia *Wednesday, January 13, 1999*

"File Download Time Calculator"

At a very early age, most of us learned that one and one equals two. Ever since, we do not need calculators for simple sums. But complex calculations for specific fields of interest are a different kettle of fish. Often, even the most advanced calculator supplied by the high street electronics store is inadequate when scientific problems have to be solved. The only solution in such cases is to write your own program for a programmable calculator. Internet users, however, have an additional option. At the **Calculators On-Line Centre** they find a vast collection of advanced calculators for an equally vast number of widely different applications. The Centre may be found at

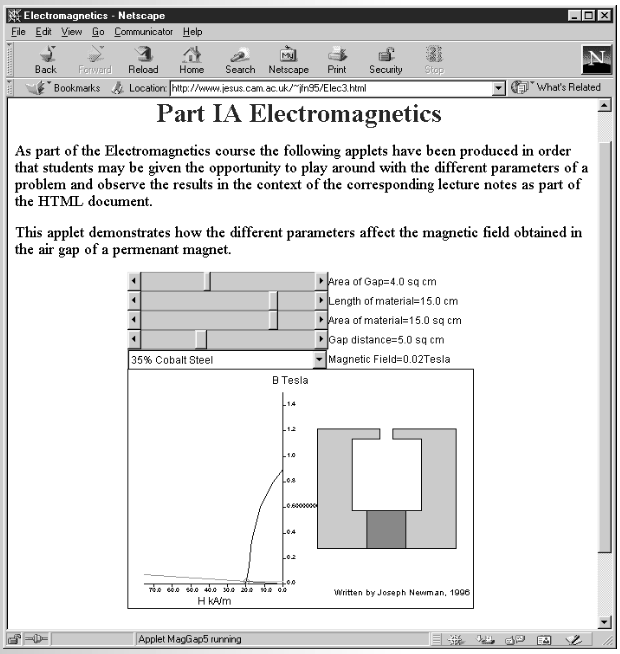
http://www-sci.lib.uci.edu/HSG/RefCalculators.html

Apart from these stand-alone calculators, the site also includes emulators ('all-software-lookalikes') of famous scientific calculator models once produced by Casio, Texas Instruments and Hewlett Packard.

Some of these emulators may be downloaded, others only run as Java Applets or Java Scripts within your Internet browser.

The collection is divided into four sections, of which section number four (IV) is of particular interest to electronics designers and engineers. Under the heading 'Section IV Engineering Electrical & Computer' we found a big collection of calculator functions that may be applied to many aspects of electronics and computer technology. Special calculators may be found for such specialisms as PCB design, integrated circuit design, antenna dimensioning, waveguide signal transmission, loudspeaker enclosure design, J-FET amplifier calculations, or, indeed, your common-or-garden oscillator.

(995021-1)

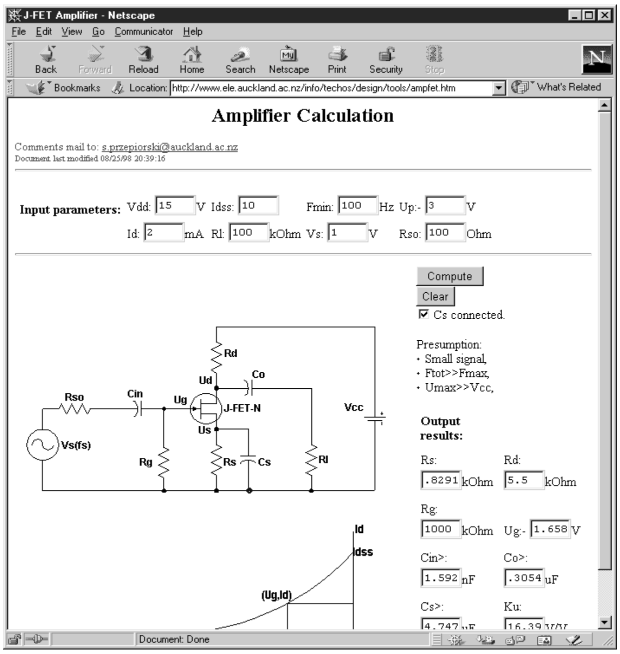

Electromagnetics - Netscape
File Edit View Go Communicator Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: http://www.jesus.cam.ac.uk/~jfn95/Elec3.html
What's Related
B Tesla
1.4
1.2
1.0
0.8
0.6000000
0.4
0.2
0.0
70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0
H kA/m
Written by Joseph Newman, 1996
Applet MagGap5 running

Part IA Electromagnetics

As part of the Electromagnetics course the following applets have been produced in order that students may be given the opportunity to play around with the different parameters of a problem and observe the results in the context of the corresponding lecture notes as part of the HTML document.

This applet demonstrates how the different parameters affect the magnetic field obtained in the air gap of a permenant magnet.

Area of Gap=4.0 sq cm
Length of material=15.0 cm
Area of material=15.0 sq cm
Gap distance=5.0 sq cm
35% Cobalt Steel
Magnetic Field=0.02Tesla


J-FET Amplifier - Netscape
File Edit View Go Communicator Help
Back Forward Reload Home Search Netscape Print Security Stop
Bookmarks Location: http://www.ele.auckland.ac.nz/info/techos/design/tools/ampfet.htm
What's Related
Compute
Clear
Rd
Co
Ud
Rso
Cin
Ug
J-FET-N
Vcc
Us
Vs(fs)
Rg
Rs
Cs
Rl
Id
Idss
(Ug,Id)
Document: Done

Amplifier Calculation

Comments mail to: s.przepiorski@auckland.ac.nz
Document last modified 08/25/98 20:39:16

Input parameters: Vdd: 15 V Idss: 10 Fmin: 100 Hz Up:- 3 V
Id: 2 mA Rl: 100 kOhm Vs: 1 V Rso: 100 Ohm

☑ Cs connected.

Presumption:
- Small signal,
- Ftot>>Fmax,
- Umax>>Vcc,

Output results:
Rs: .8291 kOhm
Rd: 5.5 kOhm
Rg: 1000 kOhm
Ug:- 1.658 V
Cin>: 1.592 nF
Co>: .3054 uF
Cs>: 4.747 uF
Ku: 16.39 V/V